

DERWENT PUBLICATIONS LTD.

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SHOWA DENKO KK
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Lightweight concrete prodn. from foamed cement - using ammonium dodecyl benzene sulphonate foaming agent
A93E14 L02
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In production of light wt. concrete from a foamed cement slurry comprising H_2O , foaming agent and cement material, the improvement comprises using as the foaming agent ammonium alkyl aryl sulphonate e.g. ammonium dodecylbenzene sulphonate etc., so that the light wt. concrete exhibits decreased water-absorbability and water-permeability as well as exhibits excellent anti-freezing and-fusing properties without any damage on its fine uniform foamability and variable bulk density. In the ammonium alkylarylsulphonate, the alkyl radical is straight-chained and has 8-18 carbon atoms, and the aryl radical is e.g. phenyl radical etc. The amt. of the alkylarylsulphonate to be added is at least 0.01 wt. part against 100 wt. parts of the cement material in the case of ammonium dodecylbenzenesulphonate. If necessary a viscosifier such as a water-soluble cellulose derivative e.g. methyl cellulose, ethyl cellulose, methylethyl cellulose, hydroxy ethyl cellulose and CMC etc. may be added. (4ppW34).

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Discovery House, Phillip ACT 2606
PO Box 200, Woden ACT 2606
Australia

Phone +61 -2 6283 2211

Facsimile +61 -2 6285 3593

Internet <http://www.ipaustralia.gov.au>